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Wisconsin Department of Commerce

Safety & Buildings Division
201 West Washington Avenue
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Evaluation #

New Product # 20089018
Replaces # 200818-I
Previously Replaced 200247-I)
Revised

Wisconsin Building Products Evaluation

Material	COREBOND III Spray-Applied Polyurethane Insulation
Manufacturer	CorBond Corporation 32040 East Frontage Road Bozeman, MT 59715

SCOPE OF EVALUATION

GENERAL: This report evaluates the use of COREBOND III spray-applied polyurethane insulation, manufactured by the Corbond Corporation. COREBOND III spray-applied polyurethane insulation was evaluated for the fire safety requirements for foam plastic requirements for the code sections listed below.

The **Comm** code requirements below in accordance with the current **Wisconsin Uniform Dwelling Code for 1 & 2 family dwellings:**

- **Foam Plastic:** The COREBOND III spray-applied polyurethane insulation was evaluated in accordance with the fire safety requirements of **s. Comm 21.11**.

The **IBC** requirements below in accordance with the current **Wisconsin Amended ICC Code:**

- **Foam Plastic:** The COREBOND III spray-applied polyurethane insulation was evaluated in accordance with the fire safety requirements of **ss. IBC 2603.1**, **2603.2**, **2603.3** and **s. IBC 2603.4**.

DESCRIPTION AND USE

General: COREBOND III is a medium density, spray-applied, rigid, closed cell foam plastic insulation material. The finished product has a trademarked, light lavender color. The tack-free time is less than 6 seconds and the cure time 4 hours. After curing, COREBOND III remains fully adhered to the framing.

TESTS AND RESULTS

The tests and results listed below cover the **Wisconsin Uniform Dwelling Code (UDC)**, (for 1- and 2-family dwellings), and the current **IBC** requirements accordance with the current **Wisconsin Amended ICC Code:**

ASTM E84 tests showed:

- a flame spread index of 25 and a smoke developed index of 200 when tested at a 1.5-inch thickness.
- a flame spread index of 25 and a smoke developed index of 450 when tested at a 4-inch thickness.
- a flame spread index of 20 and a smoke developed index of 400 when tested at a 6-inch thickness.

ASTM E84 test reports are on file with the department.

LIMITATIONS OF APPROVAL

The **Comm** limitations below are in accordance with the current **Wisconsin Uniform Dwelling Code (UDC), (for 1- and 2-family dwellings):**

- **Foam Plastic:** The COREBOND III spray-applied polyurethane insulation shall be separated from the building interior with a thermal barrier as required by **s. Comm 21.11(1)**.

1. A vapor retarder shall be provided as required under **ss. Comm 22.22(1)** and **(2)**.
2. The 1-inch air space in cathedral ceiling assemblies normally required under **s. Comm 22.08(1)(b)** for non-rigid insulation is not required when using COREBOND III.
3. COREBOND III shall be protected from the weather after application.
4. Application shall be done only by factory-certified applicators.
5. The COREBOND III spray-applied polyurethane insulation shall be installed in accordance with the manufacturer's installation instructions manual.

- **Thermal Performance:** The COREBOND III spray-applied polyurethane insulation was **not** evaluated. Data and other requirements in accordance with the thermal performance calculation requirements of **s. Comm 22.31** will be submitted on a job-to-job-basis.

1. The COREBOND III spray-applied polyurethane insulation was **not** evaluated for compliance with the thermal requirements of **Subchapter VI, ss. Comm 22.20**, **22.21**, **22.23**, **22.24**, **22.27**, **22.28**, and **22.31** of the current UDC.
2. The COREBOND III spray-applied polyurethane insulation shall be identified in accordance with the requirements of **s. Comm 22.03** of the current UDC. Each marker shall face the attic access for all blown in or sprayed insulation.

The **IBC** limitations below are in accordance with the current **Wisconsin Amended ICC Code:**

- **Foam Plastic:** The COREBOND III spray-applied polyurethane insulation shall be separated from the building interior with a thermal barrier as required by **s. IBC 2603.4**.

1. A vapor retarder shall be provided as required under **s. IECC 502.5. [Comm 63.0502 (1)]**.
2. The 1-inch air space in cathedral ceiling assemblies normally required under **s. IBC 1203.2,** for non-rigid insulation is not required when using COREBOND III.
3. COREBOND III shall be protected from the weather after application.
4. Application shall be done only by factory-certified applicators.
5. The COREBOND III spray-applied polyurethane insulation shall be installed in accordance with the manufacturer's installation instructions manual.
6. Foam plastic insulation under a roof assembly or roof covering that is installed in accordance with the code and the manufacturer's installation instructions shall meet the requirements of **s. IBC 2603.4.1.5**.

- **Thermal Performance:** The COREBOND III spray-applied polyurethane insulation shall meet the thermal performance requirements of **Comm 63.0102(2)(b)** for **all** commercial uses in WI.
- **Identification:** The COREBOND III spray-applied polyurethane insulation shall be identified in accordance with the requirements of **ss. IECC 102.1**. Each marker shall face the attic access opening for all blown in or sprayed insulation.

This approval will be valid through December 31, 2013, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The product approval is applicable to projects approved under the current edition of the applicable codes. This approval may be void for project approvals made under future applicable editions. The Wisconsin Building Product Evaluation number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement not specified in this document.

Revision Date:
Approval Date: January 16, 2009 By: _____

Lee E. Finley, Jr.
Product & Material Review
Integrated Services Bureau

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